

# **Systems and methods for performing electronic commerce and virtual electricity over a network**

## **Abstract**

Provided herein the tools for assisting an individual in creating a permanent supply of virtual electricity by way of a standalone and/or network-based electric generator, windmill, and/or solar panels. An extension of these tools is the ability for an individual to independently regenerate, stockpile, regulate, and distribute electricity to eliminate blackouts and guarantee a secure and dependable flow of energy to homes, businesses, industries, and critical infrastructures.

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## *Claims*

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What is claimed is:

1. An electronic commerce system comprising:

an interface that allows the user to disconnect electrical grid system, authenticate the system for activation, access a digital fuse box and meter, regulate voltage to power outlets, monitor kilowatt usage and history, reset tripped circuits, view digital advertisements, and facilitate online customer billing and usage payments;

an energy source that is an electric generator, windmill, and/or solar panels that allows an individual to independently regenerate, stockpile, regulate, and distribute electricity, provides a controlled backup distribution of electricity to power outlets, and directs the controlled progress of rechargeable storage; and

an energy storage device that allows an individual to independently regenerate, stockpile, regulate, and distribute electricity, exploits battery storage to supply primary energy to power outlets, employs an electric generator, windmill, and/or solar panels to facilitate energy regeneration and storage to battery/backup, operates as a main power source to electric generator, and directs a controlled distribution of electricity to power outlets.

2. The system of claim 1, wherein the advertising is displayed on the interface.
3. The system of claim 2, wherein the advertising is at least one of digital audio, digital video and multimedia.
4. The system of claim 1, wherein the interface is connecting an online/offline computer, monitor, processor, and digital storage.

5. The system of claim 4, wherein the online/offline computer, monitor, processor, and digital storage are connecting an electric generator, windmill, and/or solar panels.
6. The system of claim 5, wherein the electric generator, windmill, and/or solar panels is connecting a battery/backup storage device to supply a controlled recharge to battery/backup storage device, and provide a secondary source of electricity to power outlets.
7. The system of claim 6, wherein the backup storage device provide a primary power source to electric generator.
8. The system of claim 6, wherein the battery storage device connects an electric converter to produce an alternating current to power outlets, and provide a primary source of electricity to power outlets.
9. The system of claim 1, further comprising an electrical system allowing an individual to independently regenerate, stockpile, regulate, and distribute electricity.
10. A method for conducting electronic commerce comprising:  
  
an interface that allows the user to disconnect electrical grid system, authenticate the system for activation, access a digital fuse box/meter, regulate voltage to power outlets, monitor kilowatt usage and history, reset tripped circuits, view digital advertisements, and facilitate online customer billing and usage payments;  
  
an energy source that is an electric generator, windmill, and/or solar panels that allows an individual to independently regenerate, stockpile, regulate, and distribute electricity, provides a controlled backup distribution of electricity to power outlets, and directs the controlled progress of rechargeable storage; and  
  
an energy storage device that allows an individual to independently regenerate, stockpile, regulate, and distribute electricity, exploits battery storage to supply primary energy to power outlets, employs an electric generator, windmill, and/or solar panels to facilitate energy regeneration and storage to battery/backup, operates as a main power source to electric generator, and directs a controlled distribution of electricity to power outlets.
11. The system of claim 10, wherein the advertising is displayed on the interface.
12. The system of claim 11, wherein the advertising is at least one of digital audio, digital video and multimedia.
13. The method of claim 10, wherein the users interface is connecting an online/offline computer, monitor, processor, and digital storage.
14. The method of claim 13, wherein the online/offline computer, monitor, processor, and digital storage are connecting an electric generator, windmill, and/or solar panels.

15. The method of claim 14, wherein the electric generator, windmill, and/or solar panels is connecting a battery/backup storage device to supply a controlled recharge to battery/backup storage device, and provide a secondary source of electricity to power outlets.

16. The method of claim 15, wherein the backup storage device provide a primary power source to electric generator.

17. The method of claim 15, wherein the battery storage device connects an electric converter to produce an alternating current to power outlets, and provide a primary source of electricity to power outlets.

18. The method of claim 10, further comprising an electrical system allowing an individual to independently regenerate, stockpile, regulate, and distribute electricity.

19. A method of conducting business comprising:

an interface that allows the user to disconnect electrical grid system, authenticate the system for activation, access a digital fuse box/meter, regulate voltage to power outlets, monitor kilowatt usage and history, reset tripped circuits, view digital advertisements, and facilitate online customer billing and usage payments;

an energy source that is an electric generator, windmill, and/or solar panels that allows an individual to independently regenerate, stockpile, regulate, and distribute electricity, provides a controlled backup distribution of electricity to power outlets, and directs the controlled progress of rechargeable storage; and

an energy storage device that allows an individual to independently regenerate, stockpile, regulate, and distribute electricity, exploits battery storage to supply primary energy to power outlets, employs an electric generator, windmill, and/or solar panels to facilitate energy regeneration and storage to battery/backup, operates as a main power source to electric generator, and directs a controlled distribution of electricity to power outlets.

20. The system of claim 19, wherein the advertising is displayed on the interface.

21. The system of claim 20, wherein the advertising is at least one of digital audio, digital video and multimedia.

22. The method of claim 19, wherein the users interface is connecting an online/offline computer, monitor, processor, and digital storage.

23. The method of claim 22, wherein the online/offline computer, monitor, processor, and digital storage are connecting an electric generator, windmill, and/or solar panels.

24. The method of claim 23, wherein the electric generator, windmill, and/or solar panels is connecting a battery/backup storage device to supply a controlled recharge to battery/backup storage device, and provide a secondary source of electricity to power outlets.

25. The method of claim 24, wherein the backup storage device provide a primary power source to electric generator.

26. The method of claim 24, wherein the battery storage device connects an electric converter to produce an alternating current to power outlets, and provide a primary source of electricity to power outlets.

27. The method of claim 19, further comprising an electrical system allowing an individual to independently regenerate, stockpile, regulate, and distribute electricity.

28. An electrical system comprising:

an interface that allows the user to disconnect electrical grid system, authenticate the system for activation, access a digital fuse box/meter, regulate voltage to power outlets, monitor kilowatt usage and history, reset tripped circuits, view digital advertisements, and facilitate online customer billing and usage payments;

an energy source that is an electric generator, windmill, and/or solar panels that allows an individual to independently regenerate, stockpile, regulate, and distribute electricity, provides a controlled backup distribution of electricity to power outlets, and directs the controlled progress of rechargeable storage; and

an energy storage device that allows an individual to independently regenerate, stockpile, regulate, and distribute electricity, exploits battery storage to supply primary energy to power outlets, employs an electric generator, windmill, and/or solar panels to facilitate energy regeneration and storage to battery/backup, operates as a main power source to electric generator, and directs a controlled distribution of electricity to power outlets.

29. The system of claim 28, wherein the advertising is displayed on the interface.

30. The system of claim 29, wherein the advertising is at least one of digital audio, digital video and multimedia.

31. The system of claim 28, wherein the users interface is connecting an online/offline computer, monitor, processor, and digital storage.

32. The system of claim 31, wherein the online/offline computer, monitor, processor, and digital storage are connecting an electric generator, windmill, and/or solar panels.

33. The system of claim 32, wherein the electric generator, windmill, and/or solar panels is connecting a battery/backup storage device to supply a controlled recharge to

battery/backup storage device, and provide a secondary source of electricity to power outlets.

34. The system of claim 33, wherein the backup storage device provide a primary power source to electric generator.

35. The system of claim 33, wherein the battery storage device connects an electric converter to produce an alternating current to power outlets, and provide a primary source of electricity to power outlets.

36. The system of claim 28, further comprising an electrical system allowing an individual to independently regenerate, stockpile, regulate, and distribute electricity.

37. A method for generating electricity comprising:

an interface that allows the user to disconnect electrical grid system, authenticate the system for activation, access a digital fuse box/meter, regulate voltage to power outlets, monitor kilowatt usage and history, reset tripped circuits, view digital advertisements, and facilitate online customer billing and usage payments;

an energy source that is an electric generator, windmill, and/or solar panels that allows an individual to independently regenerate, stockpile, regulate, and distribute electricity, provides a controlled backup distribution of electricity to power outlets, and directs the controlled progress of rechargeable storage; and

an energy storage device that allows an individual to independently regenerate, stockpile, regulate, and distribute electricity, exploits battery storage to supply primary energy to power outlets, employs an electric generator, windmill, and/or solar panels to facilitate energy regeneration and storage to battery/backup, operates as a main power source to electric generator, and directs a controlled distribution of electricity to power outlets.

38. The system of claim 37, wherein the advertising is displayed on the interface.

39. The system of claim 38, wherein the advertising is at least one of digital audio, digital video and multimedia.

40. The method of claim 37, wherein the users interface is connecting an online/offline computer, monitor, processor, and digital storage.

41. The method of claim 40, wherein the online/offline computer, monitor, processor, and digital storage are connecting an electric generator, windmill, and/or solar panels.

42. The method of claim 41, wherein the electric generator, windmill, and/or solar panels is connecting a battery/backup storage device to supply a controlled recharge to battery/backup storage device, and provide a secondary source of electricity to power outlets.

43. The method of claim 42, wherein the backup storage device provide a primary power source to electric generator.

44. The method of claim 42, wherein the battery storage device connects an electric converter to produce an alternating current to power outlets, and provide a primary source of electricity to power outlets.

45. The method of claim 37, further comprising an electrical system allowing an individual to independently regenerate, stock, regulate, and distribute electricity.

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*Description*

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## BACKGROUND OF THE INVENTION

### [0001] 1. Field of the Invention

[0002] This Invention relates to electric generators for producing a reliable flow of electricity. In particular, this invention relates to an individuals ability to independently regenerate, store, manage, and distribute the electricity produced to guarantee a secure and reliable flow of energy to homes, businesses, industries, and critical infrastructures

### [0003] 2. Background of the Invention

[0004] Obtaining electricity can be achieved in various ways. For example, an individual can solicit local utility companies for obtaining electrical services.

[0005] Alternatively, an individual can employ a gasoline powered backup generator in the event of a power shortage or blackout.

## SUMMARY OF THE INVENTION

[0006] While existing systems and methods work well in general, they have a number of shortcomings. For example, often an individual may not have immediate access to a backup generator during a blackout. Similarly, an individual may not wish to afford the cost associated with the use of solar panels, windmills, turbines, etc.

[0007] The systems and methods of this invention provide tools for assisting an individual in creating a permanent supply of electricity by way of a standalone and/or network-based electric generator, windmill, and/or solar panels. An extension of these tools is the ability for an individual to independently regenerate, store, manage, and distribute the electricity produced to guarantee a secure and dependable flow of energy to homes, businesses, industries, and critical infrastructures.

[0008] These and other features and advantages of this invention are described in or are apparent from the following detailed description of the embodiments.

## BRIEF DESCRIPTION OF THE DRAWINGS

[0009] The embodiments of the invention will be described in detail, with reference to the following figures wherein:

[0010] FIG. 1 is a functional block diagram illustrating exemplary electrical system according to this invention;

[0011] FIG. 2 is a screen shot of an exemplary user interface in accordance with an embodiment of this invention;

[0012] FIG. 3 is a screen shot of an exemplary user interface in accordance with an embodiment of this invention;

[0013] FIG. 4 is a screen shot of an exemplary user interface in accordance with an embodiment of this invention;

[0014] FIG. 5 is a screen shot of an exemplary user interface in accordance with an embodiment of this invention;

[0015] FIG. 6 is a screen shot of an exemplary user interface in accordance with an embodiment of this invention;

[0016] FIG. 7 is a diagrammatic view illustrating an embodiment of electrical system according to this invention;

## DETAILED DESCRIPTION OF THE INVENTION